

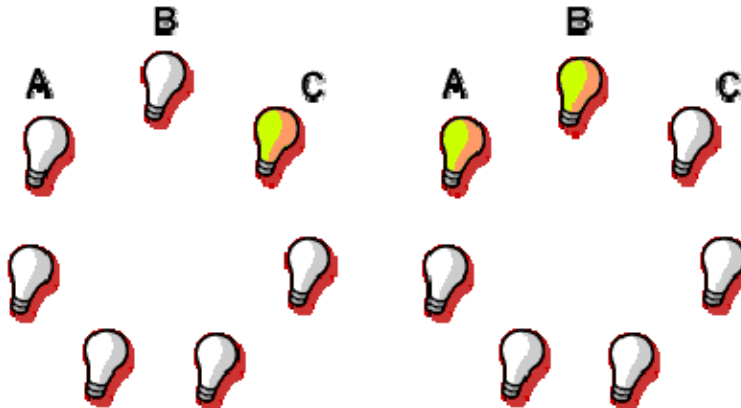
## Lights on!

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There are seven lights in a circle. They are all turned off and the problem is to turn them on.



Each light has a switch. The trouble is that the electrician didn't use proper switches. When you press a switch, if the light is on it turns off, and if a light is off it turns on as usual, however, it also does the same for the two lights on either side.



So, if you pressed the switch for light B in the left picture, lights A and B would turn on and light C would turn off as shown in the right picture.

**Extension:**

Is it possible to turn the lights all off if you start with 6 lights, one of which is



on?

**Credits:**

Original problem by   
Extension by Gord! © 2005 Galileo